



Areas for PHIN Preparedness Certification



Early Event Detection

Countermeasure and Response Administration

Outbreak Management

Partner
Communications
and
Alerting

Connecting Laboratory Systems

Cross
Functional
Components



Agenda



- Role of Certification Team
- Certification Time Line
- Begin Certification Process
 - Download Documents and Tools from PHIN Website
 - Functional Requirements and FSAT
 - Demo of Self Assessment Tool
 - KPMs, Messaging IGs and Test Scenarios
 - Demo of Online Validation Tool
- Technical Assistance Group Support
- Formal Certification Process
- Certification Reporting



Certification Time Line

Certification

Process

Timeline



Begin Certification Process Download PHIN Requirements Documents

TA Group Support in Understanding Requirements and KPMs

Formal Certification of Functional Requirements and KPMs

Formal Reporting
of Certification Results to CDC
and Partner Organizations





Begin Certification Process



- Download PHIN Documents and Tools
 - ◆ PHIN Functional Requirements and KPM Documents
 - Functional Self Assessment Tools
 - Located at http://www.cdc.gov/phin/
- ◆ Identify current available solutions
- ◆ Determine gaps
- ◆ Identify individuals to work on certification
- ◆ Determine Questions for TA Group
- ◆ Setup conference call with TA Group



Role of Certification Team



Certification Team

- Provide functional self-assessment tools
- Provide message validation tools
- Provide test scenarios
- Conduct formal certification review
- Provide assistance with tools
- Manage inquiries throughout the certification process



Requirements Documents and Self Assessment Tools



Functional Requirements Document and Functional Self-assessment Tool



Functional Requirements Document



Functional Requirements
Documents are the basis
for all Self Assessment
tools and the Certification
Process



PHIN Preparedness

OUTBREAK MANAGEMENT FUNCTIONAL REQUIREMENTS

Version 1.0 4/26/2005



Excerpt from OM Requirements Document



2.1 SYSTEM ARCHITECTURE

- 2.1.1 Systems designed to support OM must offer configuration flexibility so that new data fields, entities, entity types and relationship types may be added to capture information unique to each particular health event.
- 2.1.2 Systems supporting OM must support structured data entry for common forms and fields to ensure data integrity, validity, and standardization. A standardized data structure ensures that data mapping of common elements will only be necessary one time, rather than for each event.



Excerpt from OM FSAT Document



Same Information as in the requirements document, but now in a question and answer format.

Outbreak Management Version 1.0 - Based on RSv1.0 of the Requirements Document						
Critical or Non Critical	(:ross	System Architecture: Broad system-level needs, such as flexible configuration, should be addressed by systems supporting OM.	method by which jurisdiction can		Special considerations or special issues or special training needed to perform this function or to capture this information.	
Critical? Not Critical?	Tracking #	Requirement	Validation Method	Jurisdiction Captures	Special Considerations	
	Section 2.1 - System Architecture					
Critical	2.1.1	In order to capture the information unique to each particular event, does the OM solution permit configuration flexibility so that new data fields, entities, and relationships may be added?	Documentation and User Demo	N		
Critical		Does the OM solution support structured data entry for common forms and fields to ensure data integrity, validity, and standardization?	Documentation	N		



FSAT Summary sheet for Results Reporting



Outbreak Management Version 1.0 - Based on RSv1.0 of the Requirements Document					
FSAT_OM_Ver1.0_Final					
Tvpe your	iurisdiction na	ame herel			
[Type your jurisdiction name here] PHIN Functional Specification: Outbreak Management					
Trine randional opeomoation.	Jul	ibicak ilianage	TICIT.		
	Critical	N	Non-Critical		
Total % Answered Yes	0%		0%		
	0%		070		
Critical Requirements	% Answered Yes	Number Yes	Number No		
System Architecture	0%	0	3		
Data Requirements	0%	0	34		
Case Investigation	0%	0	10		
AVR Generation			2		
System Integration and Data Exchange	0%	0	5		
Operations	0%	0	0		
		0	54		
Total % - Critical		0%	100%		
Total % - Critical		076	100 /6		
Non-Critical Requirements	% Answered Yes	Number Yes	Number No		
System Architecture	0%	0	4		
Data Requirements	0%	0	26		
Case Investigation	0%	0	8		
AVR Generation	0%	0	10		
System Integration and Data Exchange	0%	0	7		
Operations	0%	0	6		
		0	64		
Total 0/ Nam Critical		0	61		
Total % - Non-Critical		0%	100%		



FSAT Demo



◆ Demo – Joseph Esquibel



KPM Documents and Tools



- ◆ Key Performance Measures
- ◆ Message Implementation Guides
- ◆ Test Scenarios
- ◆ Message Validation Tool



KPM Certification



- Verify Secure Message Transport
- Have ability to create message from PHIN functional solution
- Download KPM Documentation, Message IGs, and Test Scenarios
- As needed, use online message validation tool
- Contact TA group for assistance in understanding documentation and guides



KPM Document



Document used to define the critical testable criteria for each functional area that are called KPMs



PHIN Preparedness

KEY PERFORMANCE MEASURES

Version 1.0 4/26/2005



Excerpt from KPM Document



Identifying the PHIN Functional Areas and the associated KPM for each.

Key Berformance Measures

Direction: 7.0

		PHIN Preparedness Functional Areas					
#	Performance Measure	EED	OM	CRA	PCA	CLS	CFC
2	Systems must exchange messages for investigations and for exposure contacts in accordance with: with:		S R				
	 PHIN Investigation and Exposure Notification Message Implementation Guide, available at www.cdc.gov/phin. 						
3	Systems must exchange messages for laboratory results in accordance with: • PHIN Laboratory Fesult – Generic Message Implementation Guids, available	R	R			S R	
	at www.cdc.gov/phin, and • PHIN Laboratory Fesults – Biological Agent Message Implementation Guide, available at www.cdc.gov/phin.						
4	Systems must exchange messages for laboratory test requests in accordance with: • PHIN Laboratory Test Order Message Implementation Guide, available at		S			S R	
S	www.cdc.gov/phin. Systems must be able to receive health related data for early event detection purposes including data that are in the following formats: • PHIN Healthcare Encounter — Orief Complaint Message Implementation Guide,	R					
	available at www.cdc.gov/phin, and • PHIN Healthcare Encounter – Diagnosis Message Implementation Cuide, available at www.cdc.gov/phin.						



Message Implementation Guide



Implementation Guide for creation of messages used in the Certification Test Scenarios



PHIN Messaging Standard Unsolicited Result Message ORU^R01 HL7 Version 2.5

> Specification Update November 2004

Centers for Disease Control and Prevention





Test Scenario Document for Certification



The Test Case
Scenarios for each
Functional Area's KPM
can be found on the
PHIN website



PHIN Preparedness (DRAFT for discussion)

Connecting Lab Systems KPM Certification Process and Test Scenarios

> Version 1.5_0420 4/21/2005



Example Scenario - Summary



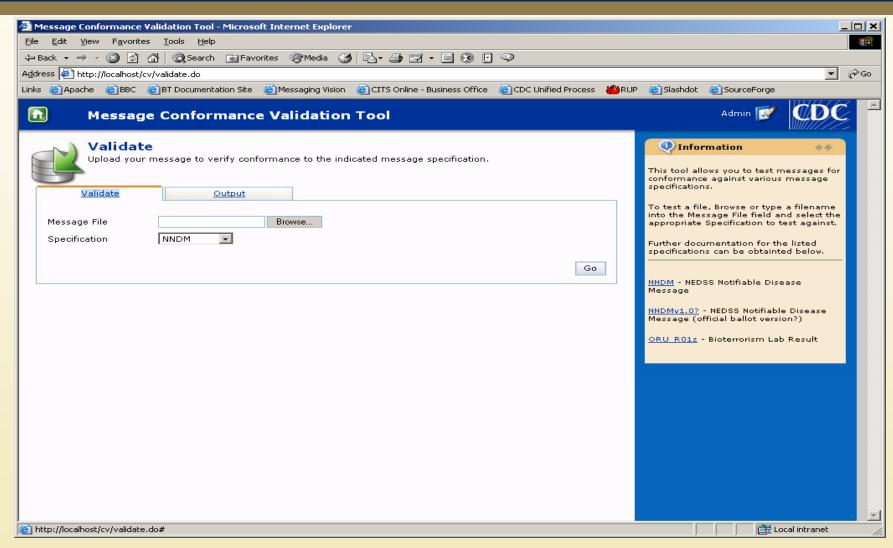
A. Scenario 1 – Send Laboratory Results (Lab B to Lab A)

Test Scenario Description	Valid Inputs	Expected Outcome
Test DOH Lab outgoing result message □ V.a.1 – The DOH Laboratory will send a Test Results message to a partner laboratory (Certification Team).	 OUL^R22 (<i>HL7 v2.5</i>) message with the following segments using the information supplied (<i>page 7 & 8</i>): MSH, PID, SPM, SAC, OBR, ORC, and OBX 	 □ Partner Lab will Accept OUL^R22 (HL7 v2.5) results message □ Message structure is valid □ Message content is valid □ Vocabulary is valid



Online Validation Tool

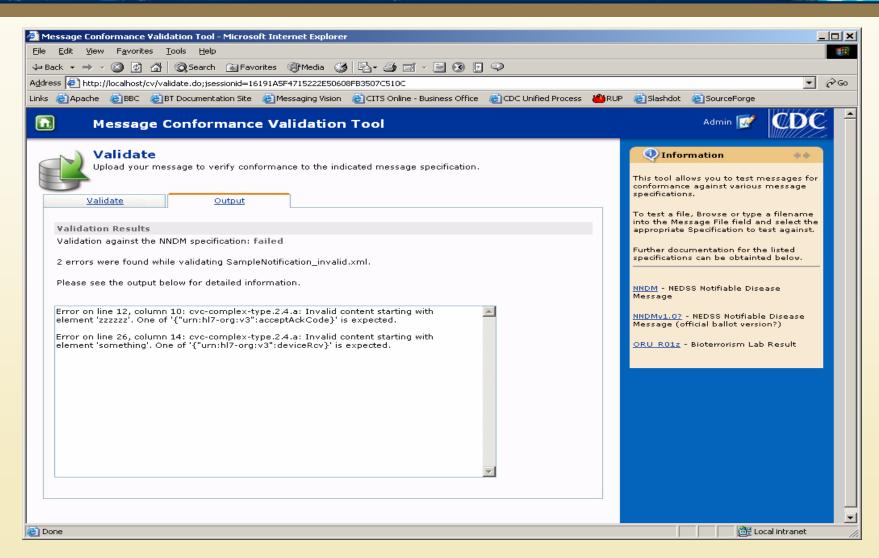






Validation Output







Message Validation Tool







Technical Assistance Support



- Work with Partners to understand the PHIN functional requirements
- Help with understanding the KPMs and how to get them implemented
- Explain and help with the implementation of CDC based solutions



Formal Certification



- Initiate Certification Process
 - Send in Self Assessment Form
 - Request KPM Certification
- Validation of PHIN Functional Area Capabilities
 - Online Demonstration of solution
 - Screen Shots
 - Reports
- Demonstrate KPM functionality. For example,
 - Send valid message to certification team
 - ◆ Send an alert and confirm its delivery to a specific role
- Review and assessment
 - Error Resolution
- Results presented to jurisdiction for review
- Documentation of certification results



Certification Reporting



- PHIN Functional Areas
 - Certified as Passed or Failed
 - Progress reported as percent complete
- Specific KPMs (Messages and Metrics)
 - Certified as Passed or Failed
 - Progress reported as percent KPMs completed based on PHIN functional area
- ◆ Certification Status Reports
 - Summary and detailed formats
 - Formal hardcopy can be requested at any time during the process



Contact Information



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Questions and Answers